

PROGRAM: **Agricultural Business Management - Agriscience**

PROGRAM **01.0100**
CIP CODE:

DESCRIPTION: The **Agricultural Business Management - Agriscience** program is designed to prepare students for employment in the Agriculture, Food and Natural Resources career cluster as defined by the USDE Office of Vocational and Adult Education. Students completing this program will possess the appropriate cluster technical knowledge and skills associated with the production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources. In addition to the required technical skills, students will also develop leadership, advanced employability, critical thinking, applied academic, and life management skills. The program utilizes a delivery system made up of three essential and required components: formal instruction, experiential education through Supervised Agricultural Experiences (SAE), leadership and personal development through the Career and Technical Student Organization, FFA. A model for this delivery system appears in the approved Curriculum Framework booklet.

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

Career Preparation The following describes the recommended Career Preparation courses developed from industry-validated skills for initial employment or continued related education. All the state-designated Agricultural Business Management - Agriscience standards are addressed in this instructional sequence.

01.0100.10 **Agricultural Business Management - Introduction to Applied Biological Systems:**
Students must attain these Standards in a coherent sequence of courses 01.0100.10 and 01.0100.12. Biology credit for college entrance and secondary graduation is available if these standards are met and a Program Review has been completed. It is required that these standards are covered in a two-course sequence during the 9th and 10th grades.

-and-

01.0100.12 **Agricultural Business Management - Applied Biological Systems:** Students must attain these Standards in a coherent sequence of courses 01.0100.10 and 01.0100.12. Biology credit for college entrance and secondary graduation is available if these standards are met and a Program Review has been completed. It is required that these standards are covered in a two-course sequence during the 9th and 10th grades.

-and-

01.0100.14 **Agricultural Business Management - Agriscience:** These Standards are designed to deliver the lab science standards associated with the Agriculture, Food and Natural Resources career cluster. Lab science credit for college entrance and secondary graduation is available if these standards are met and a Program Review has been completed. It is recommended that these standards be covered in course sequences during the 10th through 12th grades. This specific course is the 11th grade course.

-and-

One of the following Career Preparation options will be included as part of the instructional sequence for this program. These Standards are to be included in the instructional emphasis for the entire program for the option selected:

Option A

01.0100.20 **Food Products and Processing Systems:** Prepares students for careers in food processing and preserving, packaging, distribution, government monitoring & regulation.

-or-

Option B

01.0100.30 **Plant Systems:** Prepares students for careers in Agronomic, Horticulture, Forestry, Turf, Viticulture, Soils, etc.

-or-

Option C

01.0100.40 **Animal Systems:** Prepares students for careers in large animals, small animals, wildlife animals, and research animals.

-or-

Option D

01.0100.50 **Natural Resources Systems:** Prepares students for careers in Habitat Conservation, Forest Products, Parks and Recreation, Mining, Environmental Services, Fisheries, Soil Conservation, etc.

-or-

Option E

01.0100.60 **Power, Structural and Technical Systems:** Power, Structures, Controls, Geospatial Technology, Computer Systems, Electronics, Hydraulics, Pneumatics, etc.

-or-

Option F

01.0100.90 **Agribusiness Systems:** Prepares students for careers in Sales, Service, Farm and Ranch Management, Entrepreneurship, Economics, etc.

-or-

Option G

01.0100.00 **Environmental Service Systems:** Prepares students for careers in Pollution Prevention, Water & Air Quality, Hazardous Materials, Solid Waste Management, Health & Safety Sanitation, etc.

And program may elect to add:

01.0100.75 **Agricultural Business Management - Agriscience - Internship:** This course provides students an opportunity to apply previously developed knowledge and skill in Agricultural Business Management - Agriscience into a structured work experience within the same field of study. This work experience doesn't necessarily require classroom instruction and may be paid or unpaid. This is part of the student's SAE component.

-or-

- 01.0100.80 **Agricultural Business Management - Agriscience - Cooperative Education:** This course utilizes a cooperative education methodology to combine school-based and supervised work-based learning experiences directly related to the standards identified for the Agricultural Business Management - Agriscience program.

TEACHER CERTIFICATION REQUIREMENTS FOR THE AGRICULTURAL BUSINESS MANAGEMENT - AGRISCIENCE PROGRAM	
CAREER PREPARATION: The instructor must be vocationally certified according to the following table	
Agricultural Business Management - Agriscience	CERTIFICATES
	Types: PCTA, SCTA
Note: <ul style="list-style-type: none"> ▪ Agricultural Business Management - Agriscience, 01.0100.70 may be a part of the sequence and the teacher must hold a Cooperative Education Endorsement (CEN). ▪ Teacher/Coordinator 01.0100.75 is not required to have a Cooperative Education Endorsement (CEN). ▪ Teacher/Coordinator 01.0100.80 is required to have a Cooperative Education Endorsement (CEN). 	

CERTIFICATE ABBREVIATIONS FOR THE AGRICULTURAL BUSINESS MANAGEMENT - AGRISCIENCE PROGRAM	
Certificate Types	
PCTA	Provisional Career and Technical Education Agriculture
SCTA	Standard Career and Technical Education Agriculture